

CLAIMS

1. A manufacturing method for a brush-shaped grindstone having a plurality of wire-shaped grinding elements, each element being formed such that a composite yarn composed of inorganic filaments is impregnated and hardened with a resin, and a holder for holding base end side portions of the wire-shaped grinding elements on a grindstone holding surface, comprising steps of:

forming a plurality of embedding holes that open on the grindstone holding surface in isolated positions;

forming rod assemblies by bringing a plurality of wire-shaped grinding elements together; and

embedding base end side portions of the rod assemblies in the embedding holes and fixing them with adhesive.

2. The manufacturing method for a brush-shaped grindstone according to claim 1, wherein round holes are formed as the embedding holes in the holder, and wherein a plurality of wire-shaped grinding elements are roundly bundled to form each of the rod assemblies.

3. The manufacturing method for a brush-shaped grindstone according to claim 1, wherein grooves are formed as the embedding holes in the holder, and wherein a plurality of wire-shaped grinding elements are flatly aligned to form each of the rod assemblies.

4. The manufacturing method for a brush-shaped grindstone according to claim 1, wherein the inorganic filaments are twisted in the composite yarn.

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5. The manufacturing method for a brush-shaped grindstone according to claim 1, wherein the wire-shaped grinding elements have a flat cross-section.

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6. A brush-shaped grindstone manufactured according to the method as defined in any of claims 1 to 5.

7. A polisher brush having:

a brush-shaped grindstone as defined in claim 6;

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a cylindrical brush case; and

screws for fixing the holder on an interior side of the brush case so that free ends of the wire-shaped grinding elements protrude from lower end portion of the brush case; wherein

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the brush case is formed with a spindle extending inside the brush case along an axial direction thereof, and with guide holes extending in the form of grooves in a peripheral wall of the brush case along the axial direction thereof; wherein

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the holder is formed with an axle hole in which the spindle is fitted, and with screw holes that extend from an

external peripheral surface of the holder to the axle hole;
and wherein

the screws are secured in the screw holes so as to be
attached to the external peripheral side of the brush case and
5 to pass completely through the guide holes in a state in which
leading end portions of screw shafts come in contact with an
external peripheral surface of the spindle.

8. The polisher brush according to claim 7, wherein a
10 surrounding portion where the leading end portions of the
screw shafts come in contact with the external peripheral
surface of the spindle, is a flat surface.

9. The polisher brush according to claim 7, wherein guide
15 holes extend parallel to the axial direction on the peripheral
wall of the brush case.

10. The polisher brush according to claim 7, wherein the
guide holes extend in a direction diagonal to the axial
20 direction on the peripheral wall of the brush case.

11. The polisher brush according to claim 7, wherein a
projecting portion that projects toward the external
peripheral side of the spindle is attached to the spindle at
25 its lower end side.

12. The polisher brush according to claim 7, wherein

a projecting portion that projects toward the external peripheral side of the spindle is attached to the spindle at its the lower end side;

5 a plurality of protrusions extending radially toward the external peripheral side are formed on an external peripheral side of the projecting portion; and

the wire-shaped grinding elements are evenly positioned between the protrusions.

10 13. The polisher brush according to claim 7, wherein a plurality of protrusions extending radially toward the external peripheral side are attached to the spindle, and the wire-shaped grinding elements are evenly positioned between said protrusions.

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